

# **QUICK-CONNECT POSITIVE TEMPERATURE COEFFICIENT OF RESISTANCE RESISTOR/OVERLOAD ASSEMBLY AND METHOD**

## **Abstract of Disclosure**

A positive temperature coefficient of resistance resistor/overload (PTCR/OL) resistor assembly that can be quickly and easily electrically connected and disconnected from equipment without the need for special tools or equipment. In some arrangements of the present invention, a locking tab on the electrical connector can be secured against an angle on the PTCR/OL to prevent the electrical connection from being broken during shipping or operation equipment movement or vibration. When it is necessary to electrically disconnect the PTCR/OL from the equipment, the locking tab can be disengaged from the angle on the PTCR/OL by bending the tab until it releases from against the angle, and the electrical plug can then be disconnected from the PTCR/OL. The improved assembly provides increased isolation of incoming electrical wires with less material than previous devices. The improved assembly also provides for an easy method of using different terminals in the PTCR/OL, so that a variety of isolated electrical connectors can be utilized with the PTCR/OL with minimal modifications or changes.